CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/CEMENT/2016-17 Date: 31.01.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Cement
Sample Received on	:	27.01.2017
Period of Testing	:	27.01.2017 to 31.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Technical Manager

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/SAND-Gradation/2016-17 31.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of Work	: Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	: BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 27.01.2017
Date of Testing	: 31.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.90	90-100	90-100	90-100	95-100
2.36	75.70	60-95	75-100	85-100	95-100
1.18	53.20	30-70	55-90	75-100	90-100
600 Micron	21.70	15-34	35-59	60-79	80-100
300 Micron	15.80	5-20	8-30	12-40	15-50
150 Micron	5.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/AGG/GR/2016-17 31.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	27.01.2017
Date of Testing	:	31.01.2017

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	37.00	30-70	0-20
10	24.00	10-35	0-5
4.75	4.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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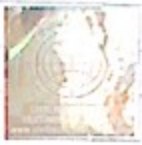
Job No.: CTCE/BBMP/KRIDL/W.No.03/Steel/2016-17

31.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	31.01.2017



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.2	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 10.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	10.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2017	10.02.2017	8.103	329.6	14.65
2	03.02.2017	10.02.2017	8.225	336.5	14.96
3	03.02.2017	10.02.2017	8.356	341.5	15.18

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AE No 3

Counter AE-3

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17

10.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	10.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2017	10.02.2017	8.125	330.3	14.68
2	03.02.2017	10.02.2017	8.266	343.2	15.25
3	03.02.2017	10.02.2017	8.337	351.5	15.62

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AE W3

AE-03

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* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	10.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2017	10.02.2017	8.188	325.4	14.46
2	03.02.2017	10.02.2017	8.296	331.5	14.73
3	03.02.2017	10.02.2017	8.327	337.4	15.00

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* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	13.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2017	13.02.2017	8.123	321.3	14.28
2	06.02.2017	13.02.2017	8.298	331.6	14.74
3	06.02.2017	13.02.2017	8.331	338.7	15.05

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* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	13.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2017	13.02.2017	8.098	325.5	14.47
2	06.02.2017	13.02.2017	8.192	336.8	14.97
3	06.02.2017	13.02.2017	8.265	348.5	15.49

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2017	17.02.2017	8.115	322.6	14.34
2	10.02.2017	17.02.2017	8.235	342.8	15.24
3	10.02.2017	17.02.2017	8.339	349.6	15.54

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* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2017	17.02.2017	8.208	329.8	14.66
2	10.02.2017	17.02.2017	8.305	338.7	15.05
3	10.02.2017	17.02.2017	8.412	342.6	15.23

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 23.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Covering Slab Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	23.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.02.2017	23.02.2017	8.105	333.5	14.82
2	16.02.2017	23.02.2017	8.295	342.3	15.21
3	16.02.2017	23.02.2017	8.375	359.6	15.98

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 20.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	20.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.02.2017	20.02.2017	8.182	326.6	14.52
2	13.02.2017	20.02.2017	8.237	339.8	15.10
3	13.02.2017	20.02.2017	8.305	343.5	15.27

*Information is furnished by the Customer/Representative.

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AE W3

AE-03

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 20.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	20.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.02.2017	20.02.2017	8.130	332.5	14.78
2	13.02.2017	20.02.2017	8.226	340.6	15.14
3	13.02.2017	20.02.2017	8.307	350.1	15.56

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AE 03 AE-03

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 20.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	20.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.02.2017	20.02.2017	8.155	339.9	15.11
2	13.02.2017	20.02.2017	8.298	346.5	15.40
3	13.02.2017	20.02.2017	8.335	360.8	16.04

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AE-03

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 22.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	22.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2017	22.02.2017	8.110	333.5	14.82
2	15.02.2017	22.02.2017	8.280	341.6	15.18
3	15.02.2017	22.02.2017	8.325	348.9	15.51

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AE W3

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17

22.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	22.02.2017

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2017	22.02.2017	8.226	335.6	14.92
2	15.02.2017	22.02.2017	8.305	353.6	15.72
3	15.02.2017	22.02.2017	8.428	362.5	16.11

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AE-23

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17

22.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	22.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2017	22.02.2017	8.115	325.4	14.46
2	15.02.2017	22.02.2017	8.299	345.6	15.36
3	15.02.2017	22.02.2017	8.382	359.8	15.99

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AE No 3

AE-03

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T-2377

Job No: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17

25.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Improvements of roads & drains in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP(YNK.D)/W.O/111/2016-17 Dated: 27.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	25.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2017	25.02.2017	8.125	327.8	14.57
2	18.02.2017	25.02.2017	8.235	339.6	15.09
3	18.02.2017	25.02.2017	8.337	346.8	15.41

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AE W3 AE-2

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17 25.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	25.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2017	25.02.2017	8.125	330.5	14.69
2	18.02.2017	25.02.2017	8.226	343.6	15.27
3	18.02.2017	25.02.2017	8.337	350.9	15.60

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EW3 AE-03

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-257/Cube/2016-17

25.02.2017

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* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	25.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2017	25.02.2017	8.287	322.5	14.33
2	18.02.2017	25.02.2017	8.335	330.5	14.69
3	18.02.2017	25.02.2017	8.405	342.5	15.22

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AE W3

AE-D

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